

**CHAPTER 7- Embankment - 02330****General:**

Placement of excavated materials in embankments. Shape and maintain embankments. Fill holes, pits and other depressions left by removing unsuitable materials.

Contractor furnished borrow may be used and suitable excavation wasted provided there is no additional cost to the department. Provide borrow that is equal to or better quality than the wasted excavation.

**Related Sections:**

02056: Common Fill

02231: Site Clearing and Grubbing

02334: Compaction

02912: Topsoil

**Preparation:**

Assure that all organic material, including topsoil, is removed from the area prior to placement of embankment material.

Assure that no material is placed on frozen or snow-covered areas and that no frozen material is used as embankment.

Remove, waste and replace unsuitable material.

Assure that underlying roadway surfaces are broken so that no piece exceeds 3.0 ft<sup>2</sup>. Also assure no material over 3.0 ft, largest dimension, is placed. Assure there is suitable space between large materials to fill voids and allow for proper compaction. Assure no large materials are placed within 1.0 ft of subgrade surface.

Assure familiarity with typical section drawings for the project for slope and thickness of the embankment area.

Assure existing and new utilities are protected during embankment operations.

Assure that the Contractor is aware of and does not violate environmental restrictions or private property.

Assure erosion and sediment control is in place and maintained according to the Erosion control plan and Storm Water Pollution Prevention Plan.

Assure that proper traffic control is provided and dust is controlled.

**Documentation:**

Document all activities in the daily diary and electronic field book.

Complete density testing forms daily and place in project file.

<b>EMBANKMENT</b>
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SPEC	INSPECTION LEVEL	INSPECTION OBJECTIVE	INSPECTOR ACTIVITY
02330	Important	<p>Ensure the safety of the traveling Public</p> <p>Ensure Traffic Control plan has been approved.</p> <p>Ensure devices and systems meet NCHRP-350 report requirements</p> <p>Ensure traffic signs conform to the MUTCD.</p> <p>Ensure Traffic Control Maintainer is Certified by the Department or American Traffic Safety Services Association (ATSSA)</p>	<p>Before erecting signs: Inspect condition of sign panels and supports and any allowable repairs that have been made.</p> <p>Perform and document nighttime inspection to verify that sign has proper illumination</p> <p>Traffic Control Maintainer has completed a daily record of traffic control activities using a form acceptable to the Resident Engineer Form C-110</p> <p>Inspector has made a daily note in his/her diary on the traffic control and condition of roadway.</p>

**EMBANKMENT – Check List**

<b>Confirming</b>	<b>Attributes</b>
YES ( ) NO ( ) N/A ( )	Reviewed assigned functions and then reviewed the contract plans, specifications, and special provisions, noting all provisions applicable to the assigned responsibilities.
YES ( ) NO ( ) N/A ( )	Reviewed Contractors approved Traffic Control Plan & MUTCD
YES ( ) NO ( ) N/A ( )	Contractor person for Traffic Control Maintainer has been Certified by the Department or by the American Traffic Safety Services. And Certification is current.
YES ( ) NO ( ) N/A ( )	Flaggers have a current Flagging Certification and comply with to the Department's Flagger Training Handbook
YES ( ) NO ( ) N/A ( )	Contractor TCM has submitted a C-110 or other inspection form approved by the Resident Engineer. Which has been inspected at least four times each day, at least one of which must be conducted during nighttime hours
YES ( ) NO ( ) N/A ( )	Inspector reviews safety requirements for the assigned work, reviews MUTCD, and any other safety manuals that may be pertinent and discusses any anticipated problems with the Level IV Inspector or Engineer.
YES ( ) NO ( ) N/A ( )	Completed a Daily Diary on all events for the day.
YES ( ) NO ( ) N/A ( )	Have reviewed all documentation / Certifications and handed all information into the Resident Engineers office.

**NOTES:**

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